

DATE: \_\_\_\_\_

### Rally Coach: Binomial Theorem (Target 7A)

Find the coefficient of the $x^2$ term in the expansion of $(2 + x)^5$	Find the coefficient of the $a^2$ term in the expansion of $(2a + 1)^5$
Find the coefficient of the $a^3b^4$ term in the expansion of $(a - 3b)^7$	Find the coefficient of the $x^3y^4$ term in the expansion of $(2x - y)^7$
Find the 2 <sup>nd</sup> term in the expansion of $(y - 2x)^4$	Find the 2 <sup>nd</sup> term in the expansion of $(y - x)^4$
Find the 10 <sup>th</sup> term in the expansion of $(x + y)^{23}$	Find the 10 <sup>th</sup> term in the expansion of $(a + b)^{18}$

Find the 11 <sup>th</sup> term in the expansion of: $(2x + y)^{13}$	Find the 11 <sup>th</sup> term in the expansion of: $(x + 2y)^{13}$
Expand the binomial: $(2x - 3y)^5$	Expand the binomial: $(3x - 4y)^5$
Expand the binomial: $(x^4 - y)^3$	Expand the binomial: $(x - y^4)^3$
Find the 8 <sup>th</sup> term in the expansion of: $(a^2b - cd^3)^{15}$	Find the 8 <sup>th</sup> term in the expansion of: $(a^3b - cd^2)^{15}$
Expand the binomial: $(\sqrt{x} + \sqrt{3})^3$	Expand the binomial: $(\sqrt{x} + \sqrt{2})^3$